Research Program: R2

Next Generation Fatigue Models

Objective:

The project aims to improve the reliability and validity of the data used to inform fatigue models.

Project scope:

The scope of the project will include a collection of 4200 days/nights of sleep/wake/work data as well as data analysis/statistical modelling. Data collected will include:

- Sleep/wake data collected by self-report diary and wrist activity monitor
- Work/rest data collected by self-report diary and reference to organisational records
- Subjective fatigue collected by self-report diary
- Demographic data collected by questionnaire

Benefits:

This project is in conjunction with the Second Generation Fatigue Risk Management Standards (FRMS) project. The combined outcomes of these projects are work-related fatigue models that are representative of the different workgroups for which these tools are being used and reflect the current state-of-the-art for fatigue modelling.

Expected outcomes:

The primary project outcome will be software code that will analyse a work/rest schedule and estimate the likelihood of a fatigue related error for an individual rail safety worker.

Project timeframe:

3 years (October 2009 – September 2012)

Project Chair:

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